



FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/862,916		ATTY. DOCKET NO.: M0925.70087US00	
				FILING DATE: May 22, 2001		CONFIRMATION NO.: 9694	
				APPLICANT: Anne M. Mayes et al.			
				GROUP ART UNIT: 1745		EXAMINER: Ruthkosky, Mark	
Sheet	1	of	3				

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
<i>mm</i>	A7	4,758,483		Armand et al.	07-19-1998
	A8	5,051,211		Ward et al.	09-24-1991
<i>mm</i>	A9	6,787,232	B1	Chiang et al.	09-07-2004

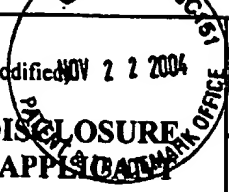
FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			
<i>mm</i>	B9	EP	0 421421 /	A1	Matsushita Electric Industrial Co., LTD.	04-10-1990	
	B10	EP	0 531005 /	A2	Anthony Price	10-03-1993	
	B11	JP	02220358 /	A	Sanyo Electric Co. LTD <i>Abstract</i>	03-09-1990	
	B12	WO	96/10538 /	A1	Zentrum Für Sonnenergieund Wasserstoff-Forschung Baden-Württemberg Gemeinnützige Stiftung	04-11-1996	Y (abstract)
	B13	WO	97/26683 /	A1	The University Court of the University of St. Andrews	07-24-1997	
	B14	WO	98/38648 /	A1	FMC Corporation	09-03-1998	
<i>mm</i>	B15	WO	98/46528	A1	Minnesota Mining and Manufacturing Company	10-22-1998	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
<i>mm</i>	C3	ALMDAL, K., et al., Communications to the Editor, Macromolecules 1990, 4336-4338	
	C4	AMATUCCI, G. G., "Surface treatments of Li _{1-x} Mn _{2-x} O ₄ spinels for improved elevated temperature performance," <i>Solid State Ionics</i> , 104: 13-25, 1997.	
	C5	ARMSTRONG, R. et al., "Synthesis of layered LiMnO ₂ as an electrode for rechargeable lithium batteries," <i>Letters to Nature</i> , 381: 499-500, 1996.	
	C6	BARKER, M. C. et al., "The Preparation and Characterisation of Polystyrene/Poly(ethylene Oxide) AB Block Copolymers," <i>Colloids and Surfaces</i> , 8: 289-295, 1983.	
	C7	BATES, Frank S., "Block Copolymers near the Microphase Separation Transition. 2. Linear Dynamic Mechanical Properties," <i>Macromolecules</i> 1984, 17, 2607-2613	
	C8	BENSON, R. S. et al., "Synthesis and Characterization of Styrene/Isoprene/Ethylene Oxide Block Copolymers," <i>J. Polymer Sci.</i> , 23: 399-410, 1985.	
	C9	BILLMAN, J. F., et al., "Structure and Phase Behavior in Five-Component Microemulsions," <i>Langmuir</i> 1990, 6, 611-620	
	C10	BILLMAN, J. F. et al., "Structure and Phase Behavior in Four-Component Nonionic Microemulsions," <i>Langmuir</i> , 7: 1609-1617, 1991.	
	C11	CANDAU, F. et al., "Synthesis and characterization of polystyrene-poly(ethylene oxide) graft copolymers," <i>Polymer</i> , 18: 1253-1256, 1977.	
	C12	CAPITAINE, F., et al., "A new variety of LiMnO ₂ with a layered structure," <i>Solid State Ionics</i> , 89, (1986), pp: 197-202	
	C13	CHEN, L.Q., "Computer Simulation of Spinodal Decomposition in Ternary Systems, <i>Acta Metall. Mater.</i> , 42(10): 3503-3513, 1994.	
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Sheet	2	of	3

<i>MR</i>	C15	DING, J. et al., "Use of Crown Ether in the Anionic Polymerization of Propylene Oxide - 3. Preparation and Micellization of Diblock-Copoly (Oxypropylene/Oxyethylene)," <i>Eur. Polym. J.</i> , 27(9): 901-905, 1991.		
	C16	Energy Lab Newsletter, July-December 1996		
	C17	GILES, J. R. et al., "Synthesis and characterization of ABA block copolymer-based polymer electrolytes," <i>Polymer</i> , 28: 1977-1981, 1987.		
	C18	GRAY, F.M. et al., "Novel Polymer Electrolytes Based on ABA Block Copolymers," <i>Macromolecules</i> , 21: 392-397, 1988.		
	C19	GUMMOW, R.J., et al., "A Reinvestigation of The Structures of Lithium-Cobalt-Oxides with Neutron-Diffraction Data," <i>Mat. Res. Bull.</i> , 28, (1993), pp: 1177-1184		
	C20	ICHINO, T., et al., "New Solid Polymer Electrolytes Prepared from Styrene-Butadiene Copolymer Latexes," <i>J. Polymer Sci.</i> , 31, (1993), pp: 589-591		
	C21	JOHNSON, G. K. et al., "Dispersion Morphology Diagrams for Three-Phase, "Microemulsion" Emulsions. 2. "Disappearance" of Morphology-Transition Lines," <i>J. Phys. Chem.</i> , 98, (1994), pp: 12097-12102		
	C22	JOHNSON, G. K. et al., "Electrical Conductivities of Three-Phase Emulsions. 2. $C_6H_{13}(OC_2H_4)_2OH/n$ -Tetradecane/Water with Wetting and Nonwetting Middle Phases," <i>Langmuir</i> , 10: 2523-2527, 1994.		
	C23	KARIS, T. E. et al., "Rheology of the Lower Critical Ordering Transition," <i>Macromolecules</i> , 28: 1129-1134, 1995.		
	C24	KHAN, I. M. et al., "Synthesis and Colloidal Behaviour of Polystyrene-b-Poly(Ethylene Oxide) Block Copolymer," <i>Eur. Polym. J.</i> , 23(3), (1987), pp: 191-194		
	C25	KHAN, I. M. et al., "ABA Triblock comb copolymers with oligo(oxyethylene) side chains as matrix for ion transport," <i>Makromol. Chem.</i> , 190: 1069-1078, 1989.		
	C26	KOETSCHAU, I. et al., "Orthorhombic $LiMnO_2$ as a High Capacity Cathode for Li-Ion Cells," <i>J. Electrochem. Soc.</i> , 142, 9: 2906-2910, 1995.		
	C27	LE CRAS, F. et al., "Lithium intercalation in Li-Mg-Mn-O and Li-Al-Mn-O spinels," <i>Solid State Ionics</i> , 89:203-213, 1996.		
	C28	LE DORE C. et al., "Synthesis of Poly(Ethylene Oxide-Diene-Ethylene Oxide) Triblock Copolymers. Characterization and Use as Solid Polymer Electrolytes," <i>Eur. Polymer J.</i> , 27: 1297-1302, 1991.		
	C29	LEIBLER, L. et al., "Theory of Microphase Separation in Block Copolymers," <i>Macro</i> , 13, (1980), pp: 1602-1617		
	C30	LI, J. et al., "Synthesis and properties of poly(2,5,8,11,14,17, 20,23-octaoxa-pentacosyl methacrylate)-block-poly(4-vinylpyridine)," <i>Makromol. Chem.</i> 192, 3043-3050 (1991), pp: 3043 - 3050		
	C31	LINDEN, E. et al., "Conductivity Measurements on Amorphous PEO Copolymers," <i>Solid State Ionics</i> , 28-30, (1988), pp: 994-1000		
	C32	LIPATOV, Y. S. et al., "Effect of Reaction Conditions on the Structure of Interpenetrating Polymer Networks. III. Kinetics of Semi-IPN Formation in the Presence of a Filler. Influence on Viscoelastic Properties," <i>Polym. Networks Blends</i> , 4(1): 9-14, 1994.		
	C33	LOBITZ, P. et al., "Block copolymers of poly(ethylene oxide) materials for polymer electrolytes (transport properties)," <i>Journal of Power Sources</i> 43-44:467-472, 1993.		
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	C35	MAYES, A. et al., "Microphase separations in multiblock copolymer melts," <i>J. Chem. Phys.</i> , 91(11), (1989), pp: 7228-7235		
<i>MR</i>	C36	NAGAOKA, K. et al., "High Ionic Conductivity in Poly(dimethyl) Siloxane-co-Ethylene Oxide) Dissolving Lithium Perchlorate," <i>J. Polymer Sci.</i> , 22: 659-663, 1984.		

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ML	C37	NAZRI, G.A. et al., "Synthesis, Characterization, and Electrochemical Performances of Substituted Layered Transition Metal Oxides $\text{LiM}_{1-y}\text{M}'_y\text{O}_2$ (M=Ni and Co M'=B and Al)," <i>Mat. Res. Soc. Symp. Proc.</i> , 453, (1997), pp: 635-464		
	C38	NESTEROV, A. E. et al., "Filler effects on the compatibility and phase separation kinetics of poly(vinyl acetate)—poly (methyl methacrylate) mixtures," <i>Polymer</i> , 33: 619-622, 1992.		
	C39	ODEGARD, R. et al., <i>In Situ</i> Formation of Polypyrrole/PEO-LiCF ₃ SO ₃ Composites by Pulsed Potentiostatic Electropolymerization, <i>J. Electrochem. Soc.</i> , 136: 1811-1817, 1989.		
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	C41	OHZUKU, T. et al., LiMnO_2 As Cathode For Secondary Lithium Cell, <i>Chemistry Express, Vol. 7, No.3, pp.193-196(1992)</i> <i>Kinki Chemical Society, Japan</i>		
	C42	ROSENDALE, J.H. et al., "Rheology of Ordered and Disordered Symmetric Poly(ethylenepropylene)-Poly(ethylethylene) Diblock Copolymer," <i>Macro.</i> , 23, (1990), pp: 2329-2338		
	C43	SMITH, D. H. et al., Electrical Conductivities of Three-Phase Emulsions. 1. Strongly Wetting Middle Phase, <i>Langmuir</i> , 10: 2516-2522, 1994.		
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	C45	WATANABE, M. et al., Morphology and Ionic Conductivity of Polymer Complexes Formed by Segmented Polyether Poly(urethane urea) and Lithium Perchlorate, <i>Macromolecules</i> , 18: 1945-1950, 1985.		
	C46	WILSON, D. J. et al., Synthesis of Block Copolymers Based on Oxyethylene Chains and Their Use as Polymer Electrolytes, <i>British Polymer Journal</i> , 22: 129-135, 1990.		
	C47	XIE, H. et al., Molecular Design Synthesis and Properties of Six Kinds of Multiphase (Styrene-Ethylene Oxide) Copolymers, <i>Chinese J. Polymer Sci.</i> , 9: 1-13, 1991.		
	C48	YAO, N., WAXS Studies on Crystalline Behavior of Polymethyl Methacrylate-Polyethylene Oxide Graft Copolymers and Their Ionic Complexes, <i>J. Macromol. Sci. Phys.</i> , B30(3):225-243, 1991.		
ML	C49	YU, I. et al., "Theoretical Investigation of the Stability and Non-Empirical Quantum Chemical Calculation for the $\text{B}_6\text{H}_6^{2-}$ Anion and its Protonated and Lithium Derivatives," <i>Doklady Akademii Nauk SSR</i> , 291, (1986), pp: 635-638		

EXAMINE R	DATE CONSIDERED 3/14/2005
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#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]